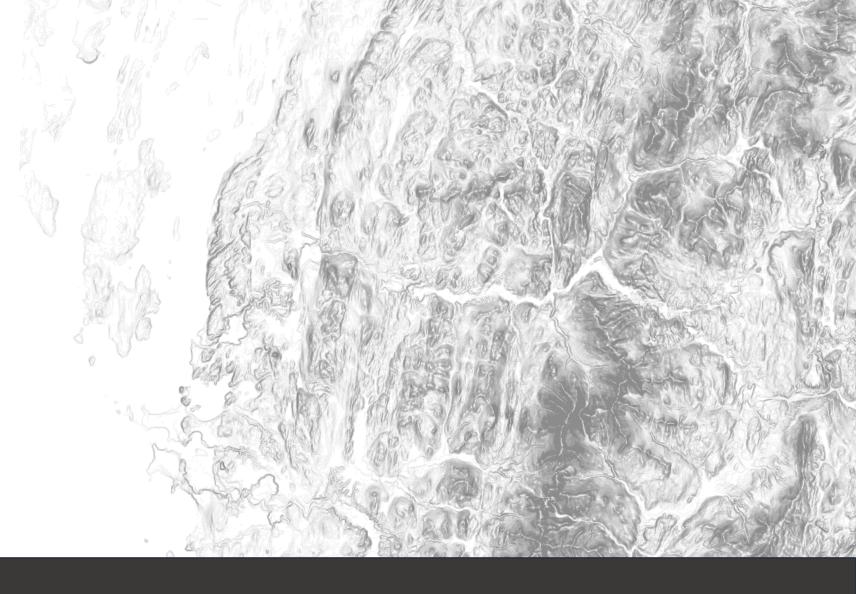
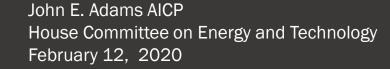
# Vermont's Geographic Information System







#### 24 V.S.A. § 4306 Municipal and Regional Planning Fund

(2)The Fund shall be composed of 17 percent of the revenue from the property transfer tax... (3)(A) 10 percent shall be disbursed to the Vermont Center for Geographic Information;

Prop Transfer Tax - FY19 - FY21	FY 2019 As Passed	FY 2020 BAA	FY2020 BAA (as amended by FY2021 budget)	FY 2021 Gov Rec
Property Transfer Tax (PTT) revenue estimate	44,400,000	45,580,000	45,100,000	48,200,000
VHCB Transfer (Housing Bond Debt Service - 32 V.S.A. § 9610(d)(1))	2,500,000	2,500,000	2,500,000	2,500,000
2% to Tax ((32 V.S.A. § 9610(c))	838,000	861,600	852,000	914,000
Remainder for distribution	41,062,000	42,218,400	41,748,000	44,786,000
33% to GF (32 VSA Sec 435(b)(10))	13,550,460	13,932,072	13,776,840	14,779,380
50% to Housing & Conservation Trust (10 VSA Sec 312)	9,804,840	10,804,840	10,804,840	10,804,840
17% to Municipal & Regional Planning Fund ((24 V.S.A. § 4306(a)(2))	3,760,599	3,760,599	3,760,599	3,760,599
70% of MRPF to Regional Planning Commissions (24 V.S.A. § 4306(a)(3)(b))	2,924,417	2,924,417	2,924,417	2,924,417
20% of MRPF to Municipal Planning Commissions (24 V.S.A. § 4306(a)(3)(c))	457,482	457,482	457,482	457,482
10% of MRPF to Geographic Information Service (24 V.S.A. § 4306(a)(3)(a))	378,700	378,700	378,700	378,700
Transfer of PTT Surcharge from HCTF	1,000,000	1,000,000	1,000,000	1,000,000
Transfer from PVR Special Fund to GF per session law	320,000	343,600	334,000	396,000
Additional Direct Application to the General Fund	15,266,101	15,064,489	14,739,721	16,837,181
Total to General Fund	28,816,561	28,996,561	28,516,561	31,616,561

<sup>\*</sup> The FY column totals are realized through notwithstanding language in the specific FY's appropriations Act and do not necessarily match the statutory language and posted percentages provided in the descriptions above.

# WHAT VCGI DOES



#### **BUILD**

Foundational
Datasets
(Spatial Data
Infrastructure)



#### LEAD

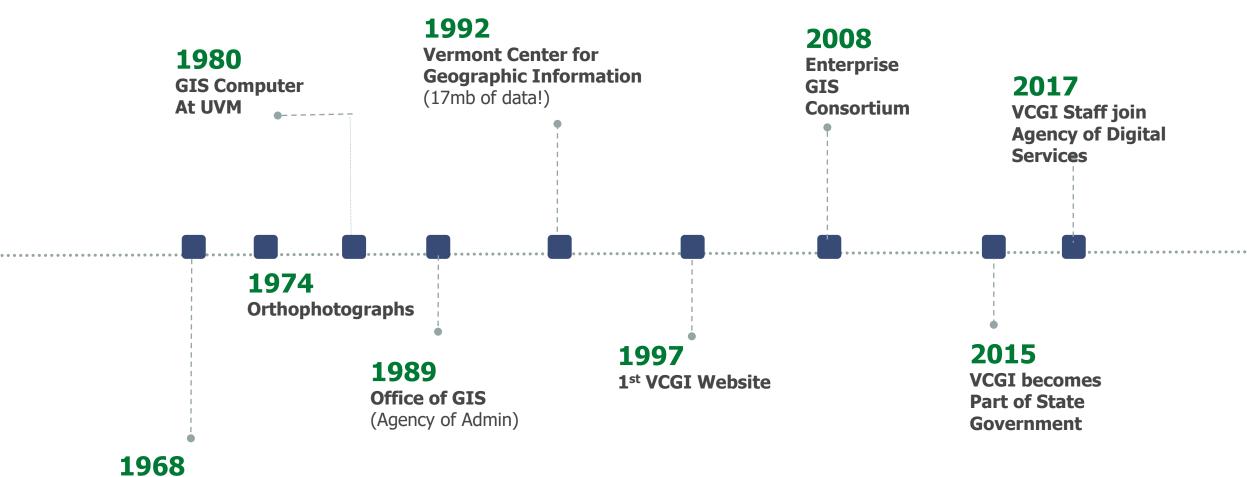
Development and use of Statewide Geographic Information System (GIS)



#### **EMPOWER**

Data analysis, visualization and informed decision making

10 V.S.A. Chapter 8: Vermont Center for Geographic Information



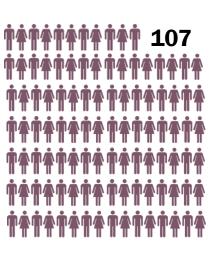
**Vermont Mapping Program** (Tax Dept)



# 











80,000+ users



# **Spatial Data Infrastructure**



**Digital Orthoimagery** Elevation **Governmental Units** Cadastral (Parcels) **Land Cover** E911 Addresses (F911) Transportation (VTrans) Hydrography (ANR)

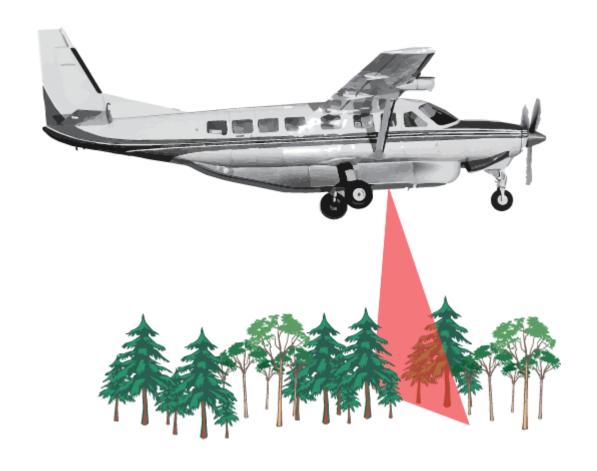


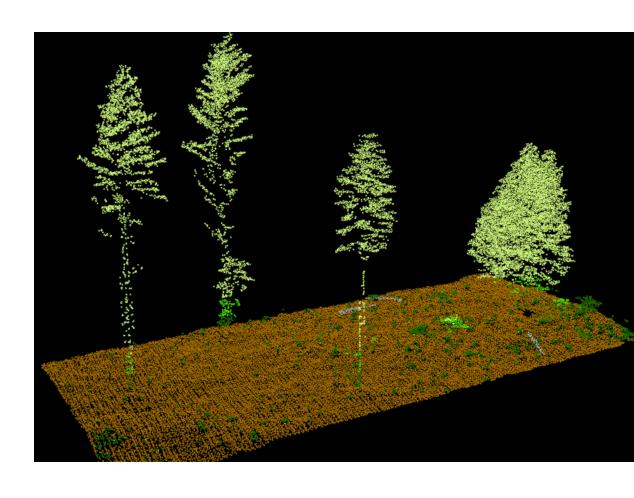




See Geospatial Maturity Assessment Report Card

# LIDAR: Light Detection And Ranging

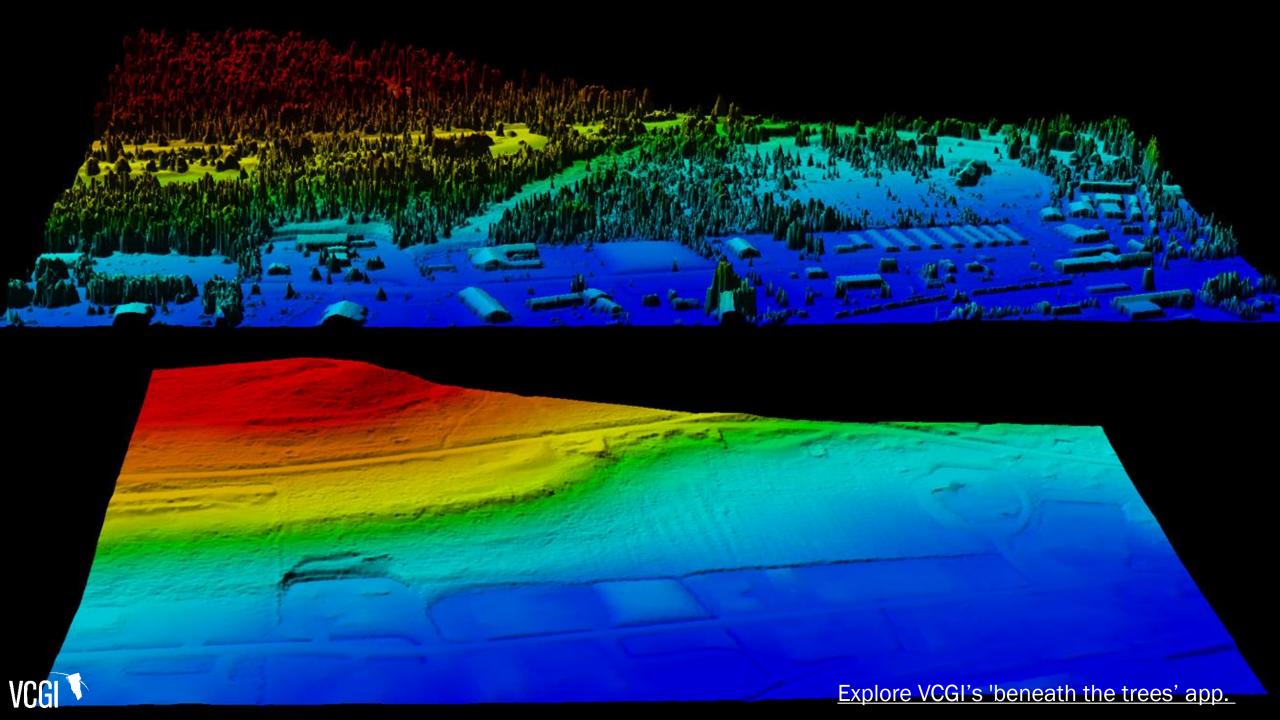






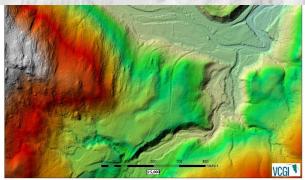
For more information on how lidar works, watch **this video** by the National Ecological Observatory Network.





# LIDAR DERIVATIVES





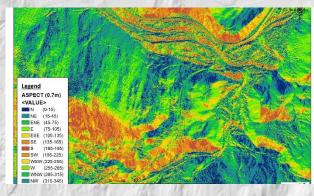
DIGITAL ELEVATION MODEL (DEM)



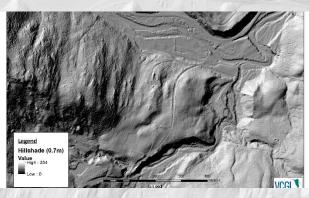
DIGITAL SURFACE MODEL (DSM)



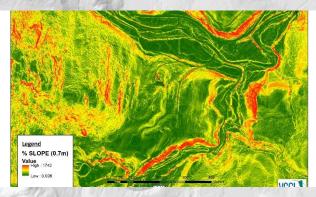
NORMALIZED DSM (nDSM)



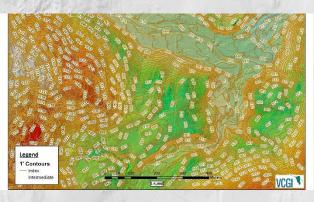
ASPECT (AZIMUTH)



"BARE EARTH" HILLSHADE

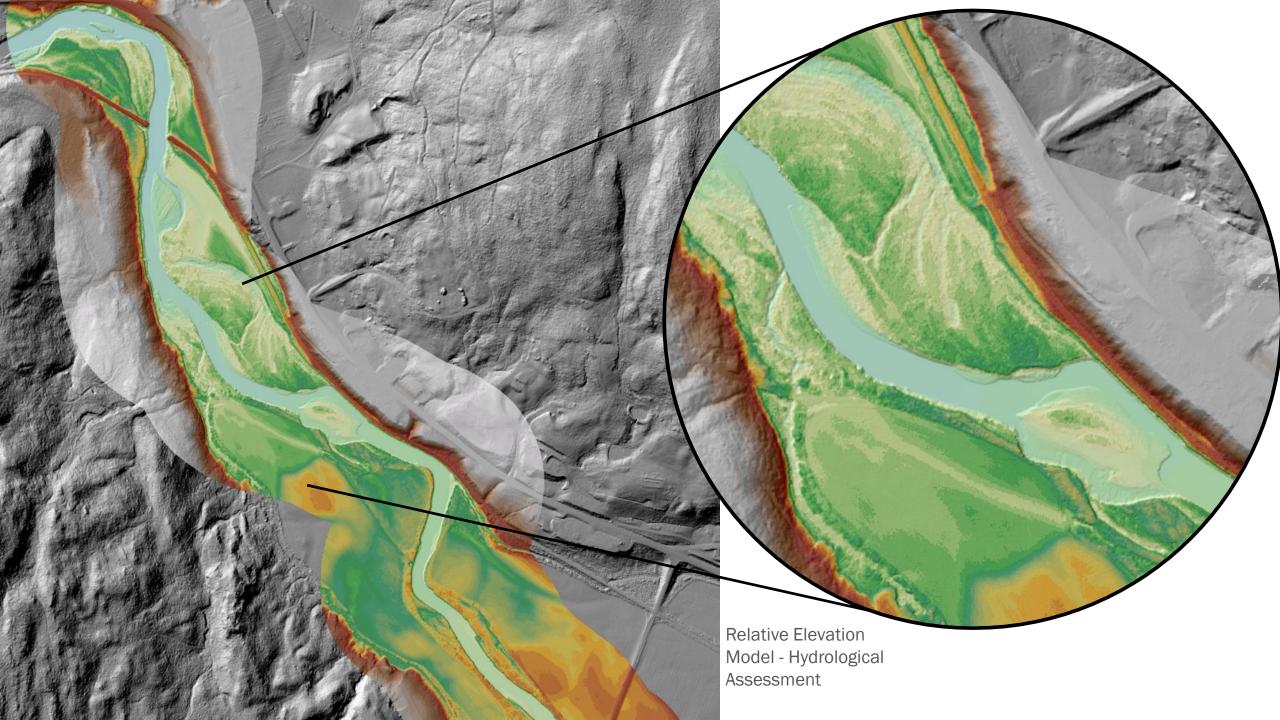


SLOPE



1 FOOT CONTOURS





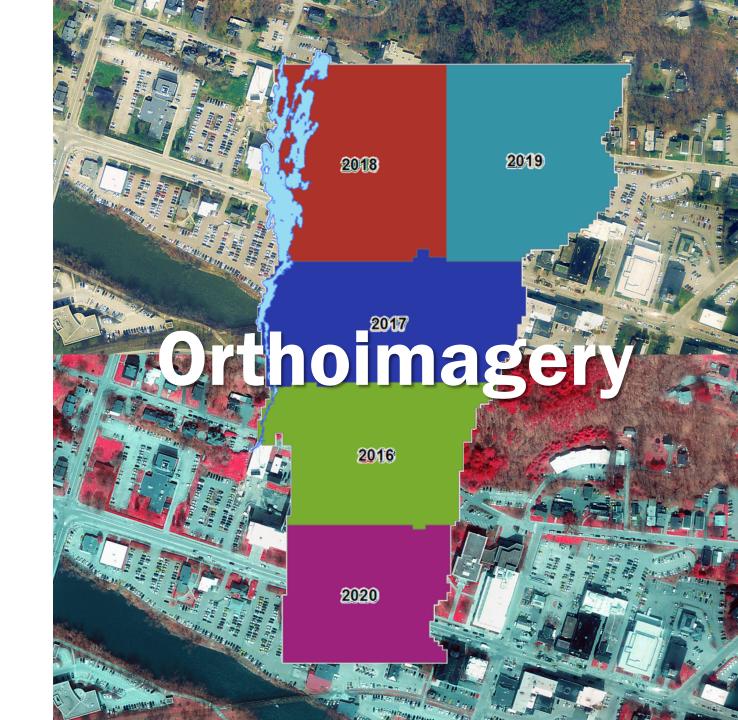
# Collected in sections with 5 year cycle

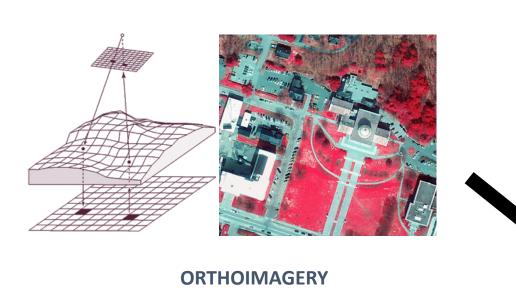
**Leaf-Off, No Snow, No Clouds, Infrared** 

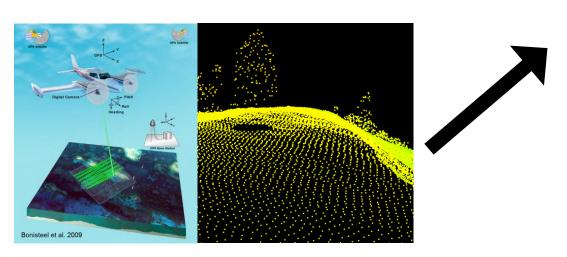
Minimum 30cm resolution

Accuracy within 73.4cm meeting NSSDA accuracy

Learn about accessing newly available historic imagery.

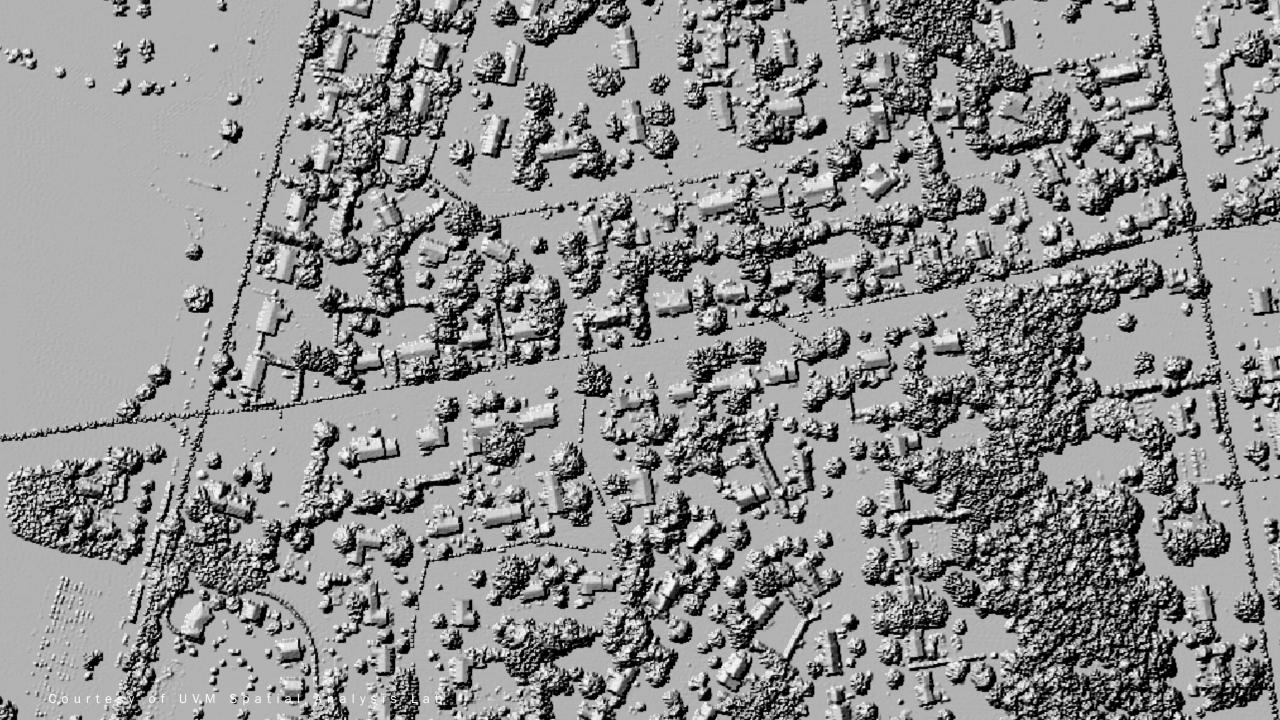






**LIDAR** 











# Municipal & Regional Planning Partners



AGENCY OF COMMERCE & COMMUNITY DEVELOPMENT
DEPARTMENT OF HOUSING & COMMUNITY DEVELOPMENT







## **Vermont's Enterprise GIS Consortium**

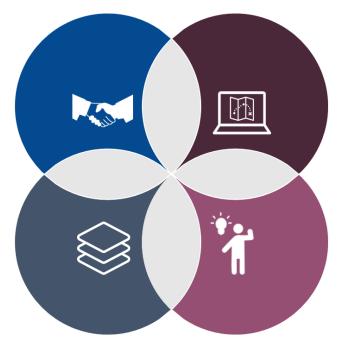
**MISSION:** The mission of the EGC is to improve quality & lower the cost of government services through coordinated investment, management, and application of geospatial data & systems.

#### **PARTNERSHIPS**

Engage partners and lead a culture of information sharing that supports responsible decision making based on accurate data.

#### **DATA**

Lead efforts to create and maintain high quality geospatial data necessary to meet the State's Goals.



#### **TECHNOLOGY**

Coordinate investment & application of GIS technologies to support effective information sharing, collaboration, and cost savings.

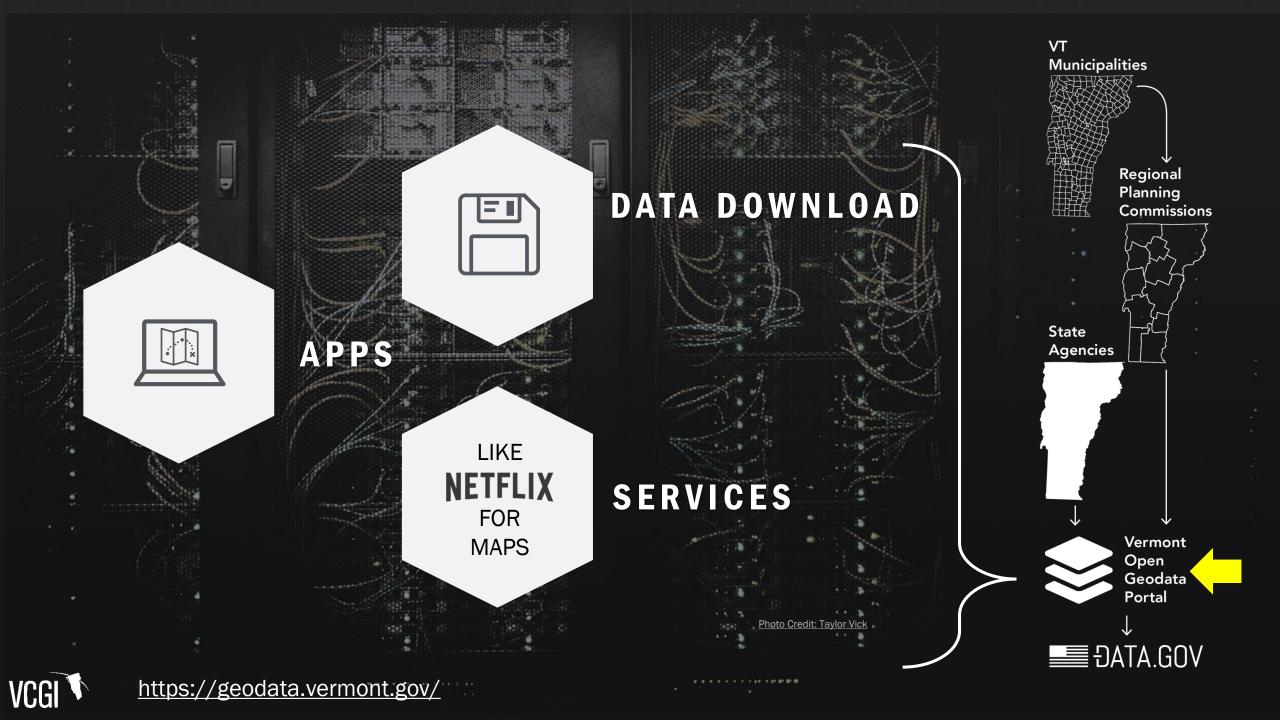
#### **PEOPLE**

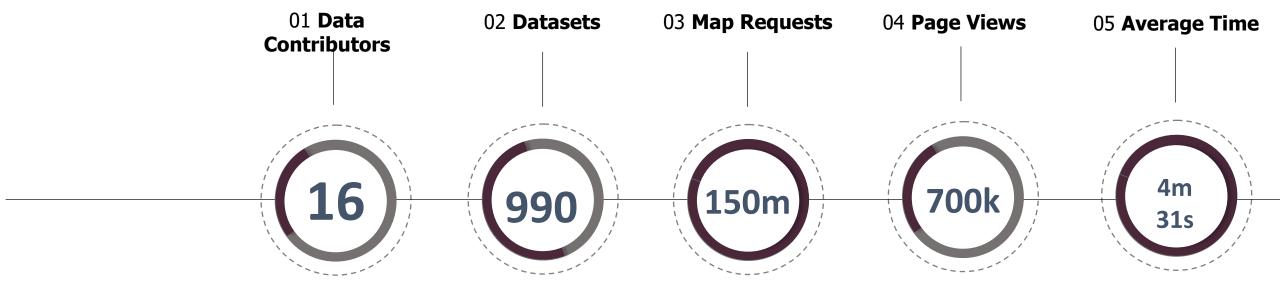
Empower people to make, use, analyze, and share maps and geographic information.











### **Geodata Portal**



STATE OF VERMONT

#### Vermont Open Geodata Portal DATA

WEB SERVICES

APPLICATIONS

**DEVELOPERS** 

CONTACT US

About

#### VT Data - Williston Zoning

Last updated 10 months ago | 13 Records





Download full or

Download -APIs -

**Connect to API** 

Zoning District Data for Williston, Vermont. Data corresponds to the Unified Development By **filtered item** Williston website. Last amended on February 19, 2019.

Overlay District data is available as a separate file.

More \*

Read the Bylaw, check date

#### Attributes

**▲** Chart • Map Visualization



Number

Shape\_Area

Shape\_Length Number

SHAPE\_Area Number

SHAPE\_Leng Number

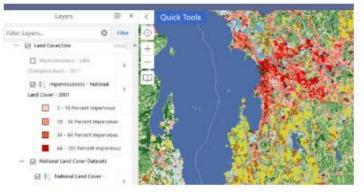
**SHOW MORE** 1 Attribute

CCRPC Open Data Item publisher/steward Shared By: pbrangan Data Source: services1.arcgis.com Item endpoint View Metadata Create Webmap View data, add Create a Story M

other layers



# Online Mapping Applications



#### **Vermont Interactive Map Viewer**

Use the Vermont Interactive Map Viewer to create maps in your browser.

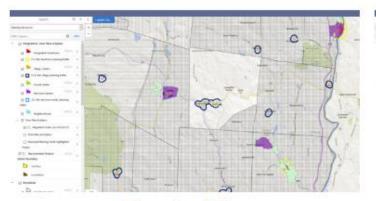
LAUNCH MAP VIEWER



#### **ANR Atlas**

Use the Agency of Natural Resources' Atlas to create maps in your browser, with emphasis on pre-loaded layers overseen by ANR.

LAUNCH MAP VIEWER



#### **Planning Atlas**

Use the Department of Housing and Community

Development's Planning Atlas to create maps in your

browser, with emphasis on pre-loaded planningrelated datasets.

LAUNCH MAP VIEWER



#### e-9-1-1 Viewer

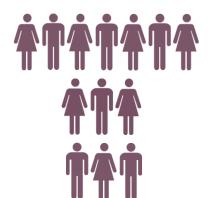
Use the Enhanced 9-1-1 Board's Viewer to create maps in your browser, with emphasis on the complete e-9-1-1 feature set.

LAUNCH MAP VIEWER

## Customer Satisfaction ...

Training & Access to Map Professional Geospatial Viewer/ Development **Applications** Data **Highly Satisfied Satisfied** 

Overall Customer Service



**Very Unsatisfied** 

# **Trainings & Events**



At least 1 in every RPC region.

#### **Examples of Trainings & Events**

Municipal Day: Springfield, Montpelier, Rutland, Essex

Town Officers Education Conference: Fairlee, Rutland

Municipal Map Jam

**VLCT Planning and Zoning Forum** 

**Opportunity Zones Summit** 

Next Generation of Land Conservation in Vermont

Vermont Development Conference

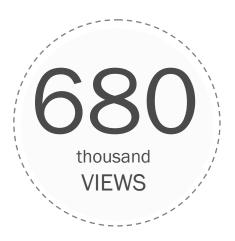
Northern New England Planners Conference

Southern Vermont Economic Development Summit

Act 171 Trainings

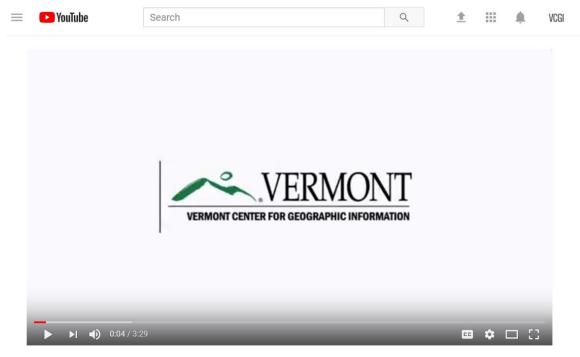
Historic Preservation & Downtown Conference

Statewide Housing Conference





VCGI Youtube Analytics as of 02/06/2020











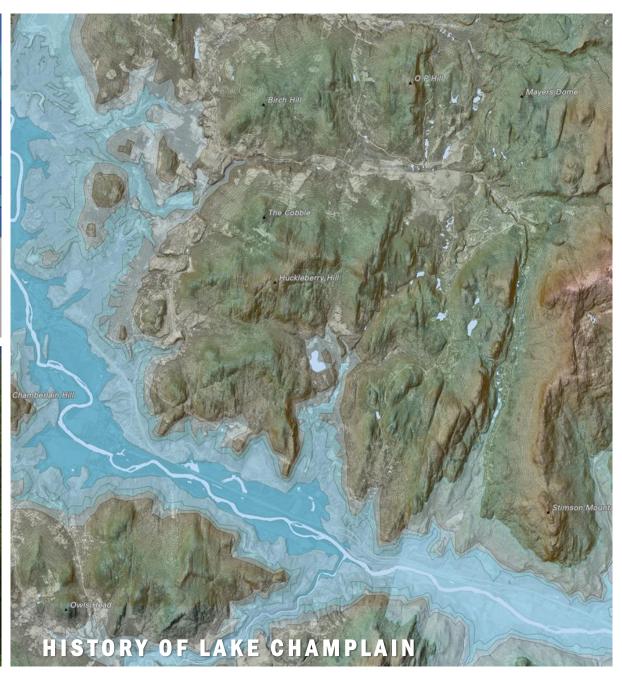
How To - Geocode Addresses in ArcGIS Pro with the Vermont E911 Geocoder

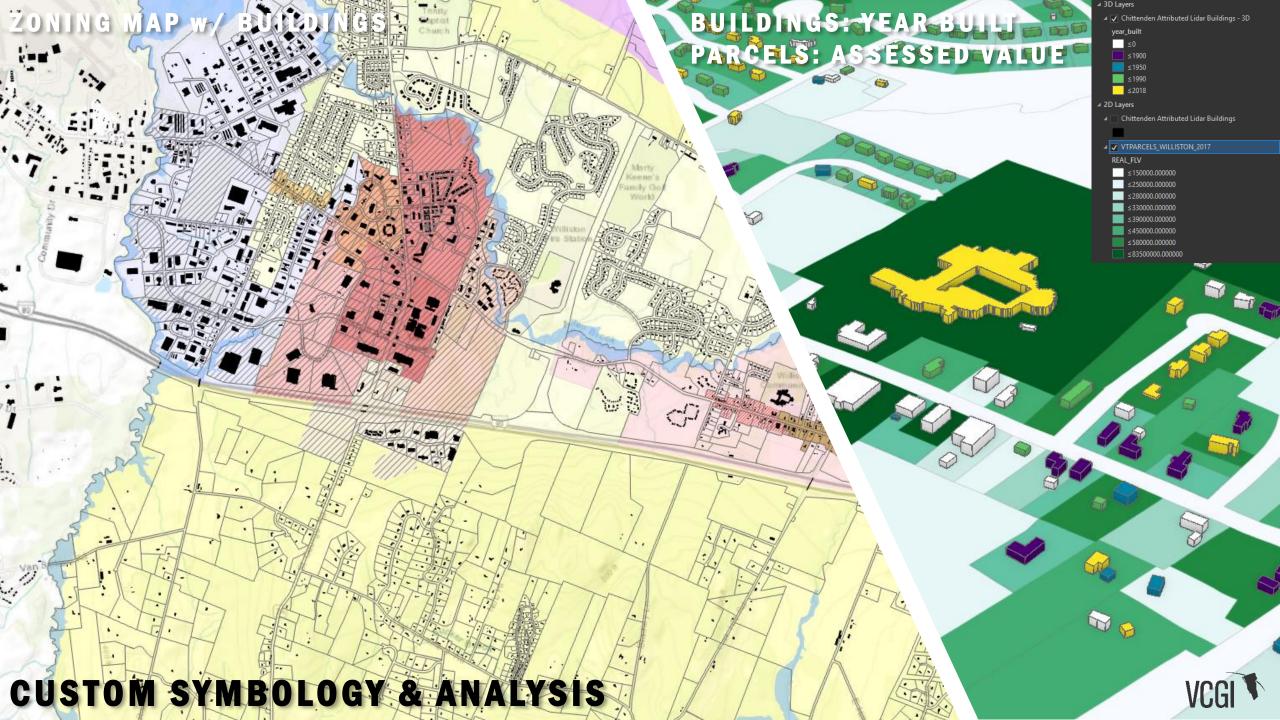
YouTube

Search

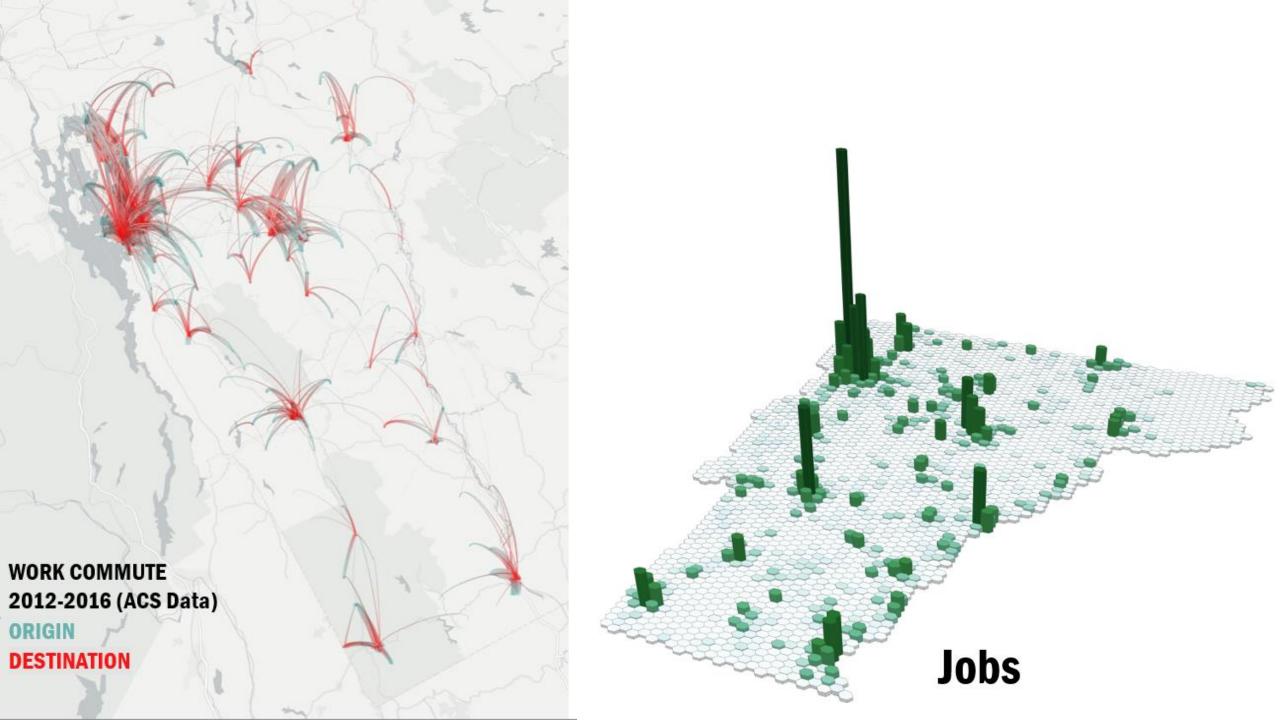












### **Learn More**

- 2019 Year in Review
- Interactive Map Viewer
- Tax Parcel Data Viewer
- Census: High Cost of a Low Count
- Historic Imagery
- Geodata Portal
- vcgi.vermont.gov

john.e.adams@vermont.gov



